

REMARKS

Consideration and allowance are respectfully requested.

Objection to the Drawings

Applicant notes the Examiner's objections from the Final Office Action of the parent application Ser. No. 07/910,213 and will correct the discrepancies in the Formal drawings.

Rejections Under 35 U.S.C. §112, Second Paragraph

In the Final Office Action of parent application Ser. No. 07/910,213, the Examiner rejected Claims 1-23 under 35 U.S.C. §112, second paragraph, for indefiniteness. The Examiner has cited specific language in Claims 1, 14, 16 and 21-23 as indefinite. Claims 1, 14, 16, 21 and 23 are amended to be more definite, and amended Claim 21 provides antecedent basis for "voltage requirements" recited in Claim 22.

Specifically, Claim 1 is amended to recite in pertinent part:

power control means for supplying a variable voltage to said memory integrated circuit without varying a voltage being supplied to elements of said electronic system other than said memory integrated circuit (emphasis added)

The phrase "the portions" is replaced with --elements--, and the phrase "independently from the" is replaced with --without varying a--.

This new language is fully supported in the specification and drawings. For example, Figure 1 shows an embodiment of a dynamic power management device according to Claim 1. Figure 1 clearly shows that the VCC input of DRAM 13 is coupled only to power director 29 (through low pass filter 31). Consequently, power director 29 can vary the voltage supplied to DRAM 13 without varying the voltage supplied to the rest of the electronic system in which the power management device and DRAM is embedded. Accordingly, Applicant submits that Claim 1 is

now fully compliant with 35 U.S.C. §112, first and second paragraphs.

In the Final Office Action of parent application Ser. No. 07/910,213, the Examiner stated, "Claims 1-20 and 23 would be allowable if rewritten to overcome the rejection under 35 U.S.C. § 112." With entry of the above amendment to the Claims 1-20 and 23, Applicant submits that Claims 1-20 and 23 are now in condition for allowance.

Rejections Under 35 U.S.C. §102

In the Final Office Action of parent application Ser. No. 07/910,213, the Examiner rejected Claims 21-22 as being anticipated by Smith. Applicant respectfully traverses.

Smith discloses a power manager which

... continually monitors various circuit functions such that devices not in use have their power sources or clock signals disconnected in order to deactivate devices to conserve battery power (column 3, lines 33-36). (emphasis added)

Thus, Smith merely teaches disconnecting power sources from devices to conserve power. Further, in regard to volatile RAM, Smith states:

However, if RAM 14 is comprised of volatile memory then the transistor switch applying Vcc power to RAM 14 is kept closed so that Vcc is still applied to RAM 14 keeping it active in order to retain the stored information. It is to be noted that non-volatile memory is preferred so that Vcc need not be applied to RAM 14 in the sleep mode (column 7, line 66 to column 8, line 4). (emphasis added)

In contrast, Claim 21, as amended, recites in pertinent part:

logic control means for causing said power control means to supply to said memory integrated circuit a first voltage during said first operation period, a second voltage different from said first voltage during said second operation period, and a third voltage different from said first and second voltages during said

third operation period. (emphasis added)

Smith in no way teaches or suggests a logic control means according to Claim 21 because Smith's power manager merely disconnects the power to a device. Further, Smith specifically teaches supplying Vcc to volatile RAM even during sleep mode. Smith's power manager does not supply three different voltages to a memory integrated circuit as recited in Claim 21. Thus, Claim 21 is not anticipated by Smith.


Claim 22 is dependent from Claim 21 and is distinguished from Smith for at least the same reasons that Claim 21 is distinguished.

Conclusion

Claims 1-23 are pending. Claims 1, 14, 16, 21 and 23 are amended. No new matter is added. For the reasons presented above, Applicant submits that Claims 1-23 are in condition for allowance. Accordingly, a Notice of Allowance is respectfully requested.

If the Examiner's next action is other than allowance of Claims 1-23, the Examiner is respectfully requested to call Applicant's attorney at (408) 283-1222.

Respectfully submitted,


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